

Interactive comment on “Wildfire effects on biological properties of soils in forest-steppe ecosystems of Russia” by E. Maksimova and E. Abakumov

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Dear Referee! Thank You very much for your comment to my manuscript. I have change the manuscript according to your suggestions, the following comments I have made to your recommendations:

Results and discussion This chapter was added by the following short review:

The profile organization of sandy loam soils can be represented as a sequence of horizons: $\text{D}\check{\text{R}}\text{D}\check{\text{c}} - \text{D}\check{\text{R}}\text{D}\check{\text{a}} - \text{D}\check{\text{a}}$. There is a pyrogenic horizon $\text{D}\check{\text{R}}\text{D}\check{\text{c}}$ in case of postfire soils. The diagnostic parameter of the pyrogenic horizon – “pir” – is allocated in classification and diagnostics of Russian soils (Shishov, Tonkonogov, 2004). However, this param-

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eter suggests a presence of residual products of peat burning on a surface of peat layer. There are not any peat postfire soils in our case; therefore it is no need to use the term "pyrogenic" for studied soils. While the postpyrogenic soils are only the stage of soil postfire development, we named them a sandy loam soils on Late Pleistocene alluvial Volga sands, affected by a local fire. For this reason, pyrogenic term used to specify postfire soils need to extend in the following discussions. The WRB classification (World reference. . . , 2006) doesn't have any horizons or diagnostic parameters of pyrogenic soils. So, the one way to specify the pyrogenic genesis of soils is to do it in soil description in “Study materials” chapter.

References The list of references was added by:

World reference base for soil resources 2006, World Soil Resources Reports No. 103. FAO, IUSS Working Group WRB, Rome, 2006.

Thank You very much!

With kind regards, Corresponding author Ekaterina Maksimova

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Interactive comment on Solid Earth Discuss., 6, 71, 2014.